

Meeting Minutes
October 28, 2003
Tri-Party Agreement Milestone Review

0061068

Approval: *Michael A. Wilson*
for Michael A. Wilson (B5-18)
Ecology IAMIT Representative

Date: 12/1/03

Approval: *W. Wade Ballard*
W. Wade Ballard (A5-12)
RL IAMIT Representative

Date: 12-15-03

Approval: *N/A*
Jim E. Rasmussen (H6-60)
ORP IAMIT Representative

Date: _____

Approval: *Nick Ceto*
Nick Ceto (B5-01)
EPA Chairperson and IAMIT Representative

Date: 12/3/03

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Minutes Prepared by: *Eileen Murphy-Fitch*
Approval: *Eileen Murphy-Fitch*
Eileen Murphy-Fitch (A4-25)
Fluor Hanford, Inc.

Date: 11/25/03

Aromi, E. S.	CHG	H6-63	Mattlin, E. M.	RL	A5-15*
Bartus, D.	EPA	B5-18	McCormick, M. S.	RL	A5-11
Bazzell, K. D.	RL	A3-04	McKarns, T. C.	RL	A5-15
Berg, G. M.	FH	L3-02	McKenney, D. E.	FG	H8-44
Bilson, H. E.	RL	A3-04	Miskho, A. G.	FH	N1-26
Bond, R.	Ecology	B5-18	Morrison, R. D.	FH	A4-25*
Borghese, J. V.	FH	E3-65	Murphy-Fitch, E. J.	FH	A4-25*
Brown, M. E.	Ecology	B5-18*	Niles, K. S.	ODOE	
Buxbaum, M.	FH	B3-53*	Piippo, R. E.	FH	A4-25
Cameron, C.	EPA	B5-01	Price, J.	Ecology	B5-18*
Clark, C. E.	RL	A5-15	Rodriguez, C.	WTEC	A4-79
Charboneau, S. L.	RL	A4-79	Rodriguez, H. M.	RL	A5-15
Cusack, L.	Ecology	B5-18*	Romine, L. D.	RL	A6-33
Cummins, G. D.	FH	H8-12	Russell, W.	ORP	H6-60
Dagan, E. B.	RL	A5-15	Schepens, R. J.	RL	H6-60
Davis, G. D.	Ecology	B5-18	Skinnarland, E. R.	Ecology	B5-18
Foley, B. L.	RL	A6-38	Sobczyk, S.	NezPerce	
Ford, Bruce H.	FH	E6-35	Stanley, R.	Ecology	Lacey*
Fritz, L.	FH	H8-44	Thompson, S.	FH	H5-27
Gadbois, L.	EPA	B5-01	VanLeuven, D. B.	FH	H5-20
Gay, R.	CTUIR		VanMasen, E.	Ecology	B4-18
Hebdon, J. B.	DOE	A5-15	Veitenheimer, S. J.	RL	A4-79
Hedges, J.	Ecology	B5-18	Watson, D.	FH	X3-79
Henry, G.	ODOE		Wilde, R.	FH	E6-35
Hertz, J. S.	FH	A4-25	Williams, J. D.	FH	L5-66
Hopkins, A.	FH	H8-25	Winterhalter, J. A.	FH	E6-35
Jackson, R.	FH	E6-35	Wilson, M. A.	Ecology	B5-18
Jim, R.	YIN*		Wilson, B. W.	Ecology	B5-18
Langstaff, D.	RL	A4-70	Wright, A. K.	RL	A6-33
LaRue, D. N.	BHI	H0-11	Administrative Record	EDMC	H6-08*
Leary, K. D.	RL	A6-38			

*w/Attachments File

Tri-Party Agreement Milestone Review
October 28, 2003

Spent Nuclear Fuel, M-034-00

Presented by: Larry Early, RL

Start: 9:05 a.m.

End: 9:37 a.m.

The status of Tri-Party Agreement of Spent Nuclear Fuel (SNF) was given by Larry Earley.

- Tri-Party Agreement Milestone M-034-08, *Initiate Full-Scale K East Basin Sludge Removal*, due December 31, 2002, has not been completed. The Contractor Operational Readiness Review (ORR) is scheduled for November and the U.S. Department of Energy, Richland Operations Office (RL) ORR will be initiated in December 2003. Alternative sludge disposal paths are being investigated to look to achieve better efficiencies in the process. The regulators voiced their concern that the baseline change request for alternative sludge disposal path ways will adopt a regulatory path forward that has not been discussed or agreed to by them and reminded DOE that there is only one CERCLA document governing current workscope and it does not identify alternative pathways.
- Tri-Party Agreement Interim Milestone M-034-28, *Complete Removal of 1,619 MTHM from the K West Basin*, due December 31, 2003, is behind schedule. To ensure on-time completion, the contractor has committed to ship 3.5 MCO's per week.
- Tri-Party Agreement target date M-034-25-T01, *Complete Transfer of K East Basin SNF to K West Basin*, due May 31, 2004, and Tri-Party Agreement Milestone M-034-18B, *Complete Removal of all K Basin SNF*, due July 31, 2004, will be completed ahead of schedule. The contractor has committed to perform 10 transfers weekly to achieve early completion.
- Tri-Party Agreement Interim Milestone M-034-10, *Complete Sludge Removal from K Basins*, due August 31, 2004 may be proposed for modification. The KE basin will be completed by August 31, 2004 but KW may not.
- Tri-Party Agreement target date M-034-09-T01, *Complete K Basins Rack and Canister Removal*, due January 31, 2005 may be proposed for modification. The contractor and RL are developing a baseline change request on the grout and removal strategy. Following RL's review, the information will be shared with the regulators.

EPA would like to see a package developed that identifies and discusses SNF issues, challenges, a path forward, i.e., get the sludge out, planning for retrieval, movement, monitoring, etc. There was only one issue identified in the presentation dealing with the timeliness of EPA review and approval of the Application for Risk-Based Disposal Approval for Polychlorinated Biphenyls (PCBs) at the 200 Liquid Waste Process Facilities.

Approximately 97.17 MTHM (16 MCOs) were shipped from K West to the CVD during the last quarter bringing the total of 268 MCOs and 1,445.31 MTHM. The SNF contractor staff was reorganized to provide focus and single-point accountability. There is a significant difference between the number of shipments completed and the baseline. The contractor has committed to complete 10 shipments per week to complete the workscope two months ahead of schedule.

The Readiness Assessment was completed for the KW Scrap removal. The first MCO containing scrap (MCO 271) was completed the week of October 20, 2003. A contract to perform a phased underwater concrete hydrolyzing demonstration was awarded. Testing in the 183-KE Sedimentation Basin will begin December 2003.

The one issue identified in the presentation dealt with the timeliness of EPA review and approval of the Application for Risk-Based Disposal Approval for Polychlorinated Biphenyls (PCB) at the 200 Liquid Waste Process Facilities. Given the status of the SNF Project as a whole, this issue isn't impeding progress.

A proposed Deactivation Plan was developed and submitted to RL at the end of June 30, 2003. The plan described three approaches:

- Grout and Remove (contractors recommended approach; accelerates the demolition of K Basins six years earlier than currently agreed to in the Tri-Party Agreement; uses grout and remove technique for D&D of basins, reduces potential for worker exposure and realizes \$10 million savings to SNF Project baseline and an additional \$10+ to basins' life-cycle costs).
- Enhanced baseline (accelerates deactivation of basins (cold/dark/dry) by 18 months and is based on manual underwater move/cut of racks and debris).
- Robotics (same as the enhanced baseline approach, except uses automation to replace hands-on labor).

Action: Develop a comprehensive document describing issues/impact/planned actions

Actionee: Larry Earley, Larry Gadbois

PFP Transition (M-083)

Presented by: Stacy Charboneau, RL

Start: 9:40 a.m.

End: 10:00 a.m.

Stacy Charboneau presented the status of the Plutonium Finishing Plant (PFP) Stabilization Project (Tri-Party Agreement Milestone series M-083). The FY 2004 workscope will be completed on or ahead of schedule. PFP received Voluntary Protection Program (VPP) Star Status and is the first former defense production facility to achieve this prestigious safety award. Since 1996, 3,616 items of metals/allows/oxides were completed – 73 items ahead of schedule. The Defense Nuclear Facilities Safety Board (DNFSB) milestone for residue repackaging was completed eight months ahead of schedule. The contractor approved readiness assessment for 232-Z was completed and authorization to proceed was issued September 19, 2003, eleven days ahead of schedule. Tri-Party Agreement Interim Milestone M-083-30, *Submittal of 241-Z/Glovebox HA-20MB Closure Plans*, was completed on July 25, 2003. Tri-Party Agreement Interim Milestone M-083-20, *Submit Endpoint Criteria to Ecology*, was completed September 30, 2003.

No significant regulatory issues or actions requiring follow-up were identified; presentation attached.

Central Plateau (M-013, M-015, M-016, M-020, and M-024)

Presented by: Bryan Foley/John Morse

Start: 10:00 a.m.

End: 10:30 a.m.

Presentation given by Bryan Foley and John Morse. Fiscal Year 2003 Central Plateau Project and Groundwater Protection Project milestones were completed either on or ahead of schedule. Chrome has been detected in the groundwater between the ISRM Barrier and the pump and treat. Three new wells are being drilled in the 100 HR Pump and Treat 100D to determine what is happening with that plume. Ecology has been involved and are in agreement with the actions taken to date. K Area workscope should move ahead to complete delineating the end of the plume and understand our path forward. Source investigations may be River Corridor scope which may become an issue.

The Z-9 DNAPL Characterization boring encountered high levels of plutonium in the plume and carbon tet vapors. DOE-HQ awarded six contracts to support development of technologies for remedial actions at the 618-10 and 618-11 Burial Grounds. This is a three-year program culminating with demonstration testing within the burial grounds. EPA questioned the rationale for this – if resources are tight, why were the contract awards made?

Issues:

200 Area Remediation

Ecology and RL disagreed about the timing for collecting ecological data to support remedial action decision making.

Status: RL is revising the Central Plateau Ecological Assessment Report, Draft B. The Report identifies several data gaps. The data quality objective (DQO) process was initiated in July 2003. Ecology and EPA are planning to provide conditional approval of the R/FS documents with the addition of text from the September global issues meeting.

U Plant Waste Sites

RL and Ecology disagree on the technical approach to characterization of soil waste sites and pipelines in the U Plant Area. RL proposes to rely on the analogous sites approach for unplanned releases and pipelines. Ecology has previously stated that the analogous sites approach is not relevant for unplanned releases and pipelines.

Status: Discussions continue. The soil waste sites are resolved but pipelines are not. The issues on waste site remediation continue to be discussed and resolutions will be reflected in the feasibility study and proposed plans. The pipeline issue remains but is being worked by the parties and contractor staff.

200-UR-1 RI/FS Work Plan

Ecology proposed a streamlining 200-UR-1 OU to investigate and remediate the 200-UR-1 OU. The proposed approach significantly modifies the workplan content and impacts RL's ability to meet the December 31, 2003, deliverable.

Status: A Tri-Party Agreement change package was approved and extends the completion date and workscope completion to June 30, 2004. Discussions centered on a workplan that would be substantially different from the previous work plans prepared under the Tri-Party Agreement Milestone Series M-013. Ecology proposed some language wherein they could conditionally approve various documents that will include text describing the basis to reopen the documents.

The 200-PW-2 OU field work that RL proposed was completed. The impact of hexone on contaminants in the vadose needs to be understood. Ecology has not approved the RI/FS Work Plan because RL did not add a hexone site for sampling. Ecology and RL will discuss this issue on October 29, 2003. If not resolved, the issue will be elevated to the Inter Agency Management and Integration Team (IAMIT).

No significant regulatory issues or actions requiring follow-up were identified; presentation attached. Presentation attached.

Land Disposal Restriction Report, M-026-01

Presented by: Mike Collins

Start: 10:30 a.m.

End: 10:35 a.m.

The CY 2002 LDR Report was approved by Ecology with seven comments. Ecology's comments are being addressed during the monthly Project Manager Meetings (PMM). Six of the seven comments are resolved; one remains open (consolidation of requirements document). PMM actions and commitments are addressed during the monthly PMM. The CY 2003 LDR Report will be initiated in mid-December 2003.

No significant regulatory issues or actions requiring follow-up were identified; presentation attached.

Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3 (M-091)

Presented by: Mark French, RL

Start: 10:35 a.m.

End: 10:50 a.m.

The M-091/M-016 Settlement Agreement and a Tentative Agreement were signed by the parties on October 23, 2003. Public comment begins in November 2003. The Sampling and Analysis Plan for 218-W-4C Burial Ground was approved and retrieval is underway. Vapor extraction in Trench 4 will be initiated by November 15, 2003. The status of the Administrative Order, acceleration of TRU shipments to WIPP, and TRU retrieval were provided.

As of October 17, 2003, 1050 m³ of 183-H waste has been disposed of at ERDF. Approximately 899 m³ of mixed-low-level waste has been treated. Work continues with the generators to develop a treatment by generator or procure commercial treatment services to prevent build-up of legacy MLLW. Thermal treatment was completed on 15 m³ of MLLW at Permafix.

Acquisition of Facilities Cs/Sr, Na, SCW (M-092-1/5)

Presented by: Doug Hildebrand

Start: 10:50 a.m.

End: 10:55 a.m.

Tri-Party Agreement Milestone M-092-01, *Complete Commercial Disposition and/or Acquisition of New Facilities, Modification of Existing Facilities and/or Modification of Planned Facilities...*, due December 31, 2009, and Tri-Party Agreement Milestone M-092-05, *Inclusion of Hanford Site Cs/SR Treatment and/or Repackaging Parameters in DOE TWRs Phase II Request for Proposals (Treatment and/or Repackaging of All Remaining Cs/Sr)...*, due June 30, 2007, were statused.

Developed project requirements through issuance of the PMP, Performance Specification and Functions and Requirements documents. A process to address technical basis was developed by issuing Capsule Advisory Panel reports. In addition, the scoping of safety analysis was completed as well as a NEPA analysis and a defined RCRA permitting path.

Efforts continue to assess viability for direct disposal at the high-level waste repository. RL is evaluating options on the path forward. Options range from completion of capsule movement into dry storage by 2006 (original project schedule) to completion of all conceptual design, environmental permitting, and safety analysis to support capsule removal to dry storage in FY 2007 or beyond. If the decision is not made in FY 2007, there may be an impact on the Vit Plant.

Work continues on the 340 Complex portion of Tri-Party Agreement Milestone M-092-16, *Complete Removal and Transfer and Initiate Storage of Phase III 300 Area Special Case Waste*. The tanks are emptied to minimum heel similar to the ones in B Plant and PUREX and subsequent evaporation has lowered the levels further to significantly below minimum heel levels.

No significant regulatory issues or actions requiring follow-up were identified; presentation attached.

Permitting/Closure Plans, M-020-00

Presented by: Tony McKarns, RL

Start: 10:55 a.m.

End: 11:00 a.m.

The Hanford Facility RCRA Permit expires on September 27, 2004. The Permittees are preparing to reapply for the permit and are discussing content and format issues. The reapplication is due to Ecology by March 31, 2004. Ecology proposed Modification F to the Hanford Facility RCRA Permit which incorporates the 222-S Laboratory Complex. The Permittees provided comments to Ecology on Mod F. RL and Ecology need to schedule a meeting to review TSD unit status in support of Tri-Party Agreement Milestone M-020-00A.

No significant regulatory issues requiring follow-on were identified; presentation attached.

**Tri-Party Agreement Milestone Review
Spent Nuclear Fuel/Central Plateau/Permits and Closure Plans
Inter-Agency Management Integration Team**

October 28, 2003
9:00 a.m. to 11:00 a.m.

EPA Conference Room
712 Swift Blvd, Suite 5

09:00 a.m.	M-034-00	Spent Nuclear Fuel
09:30 a.m.	M-083-00	PFP Transition
09:45 a.m.	M-013-00 M-015-00 M-016-00 M-024-00	Central Plateau Complete RI/FS Submittals, RI/FS Process Completion Complete Remedial Actions RCRA Well Installation
10:15 a.m.	M-026-01 M-091-00 M-092-01/05	Waste Management LDR Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3 Facilities for Cesium/ Strontium
10:30 a.m.	M-020-00	Permitting/Closure Plans
11:30 a.m.	Adjourn	

NOTE: Next Tri-Party Agreement Milestone Review is November 18, 2003 (Earlier date due to Thanksgiving Holiday)

ATTENDEES

Central Plateau/Spent Nuclear Fuel
Tri-Party Agreement Milestone Review
October 28, 2003

NAME	ORGANIZATION	MAILSTOP	ATTACHMENTS
ROB PIERCE	FH/TPA		✓
Tony Mischke	FH/Env.	H1-40	
David Watson	FH/Env.	X3-79	
DALE JACKSON	DOE-RL	A4-54	
Beth Rochette	Ecology	Kennebec	
Wade Ballard	DOE-RL		
Nick Ceto	EPA		
Larry Gadbois	EPA	B5-01	
Matt McCormick	DOE		
Tom Skinner	Ecology		
John Struffel	NPT EAWM		
JACK CHARNOAU	DOE-AMCP		
Charles Hopkins	FH/PFP		
Rick Bond	Ecology		
Ellen Matlin	DOE		
Scott Sax	FH/WSMS/PFP		
DAVID LANGSTAFF	DOE-RL		
JANE HEDGES	Ecology		
Melinda J Brown	Ecology		
JOHN G. MORSE	DOE-RL		
Ed Murphy	FH-TPAI		
Michael Collins	DOE-AMCP	A6-38	
John Price	Ecology		

**Central Plateau/Spent Nuclear Fuel
Tri-Party Agreement Milestone Review
October 28, 2003**

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Hanford Spent Nuclear Fuel Project

Tri-Party Agreement M-34 Milestone Review



Larry Earley
U.S. Department of Energy,
Richland Operations Office

October 28, 2003

TPA Milestone Status

Milestones Due Fiscal Year 2003

Number	Milestone Title	Due Date	Status/Comments
M-34-12-T01	Complete construction of Sludge Water System (SWS) per section IIA of Construction Completion Document (i.e., completion of operational testing)	9/30/2002	Completed 3/4/2003
M-34-17	Initiate K East to K West fuel transfer	11/30/2002	Completed 11/25/2002
M-34-18A	Complete removal of 957 Metric Tons of Heavy Metal (MTHM) of Spent Nuclear Fuel (SNF) from the K West Basin	12/31/2002	Completed 1/7/2003
M-34-08	Initiate full scale K East Basin sludge removal	12/31/2002	MISSED. Readiness reviews scheduled for November (FHI)/December 2003 (DOE). Commence sludge removal in December 2003.
M-34-27-T01	Complete removal of 1252 MTHM of SNF from K West Basin	5/31/2003	Completed 5/28/2003



TPA Milestone Status

Milestones Due Fiscal Year 2004-2007

Number	Milestone Title	Due Date	Status/Comments
M-34-28	Complete removal of 1,619 MTHM from the K West Basin	12/31/2003	Working schedule to ship 3.5 MCOs per week to meet milestone
M-34-25-T01	Complete transfer of K East Basin SNF to K West Basin	5/31/2004	Working to complete in 3/2004.
M-34-18B	Complete removal of all K Basin SNF	7/31/2004	Working to complete in 6/2004.
M-34-10	Complete sludge removal from K Basins	8/31/2004	KE Basin sludge removal planned for completion by 8/31/2004.
M-34-23	Start K East water removal	9/30/2004	On schedule
M-34-09-T01	Complete K Basins rack & canister removal	1/31/2005	Potential changes to milestones due to alternate deactivation strategy submitted on 6/30/2003
M-34-24	Complete K East Basin water removal	9/30/2005	* (see note below)
M-34-21-T01	Initiate full-scale K West Basin water removal	10/31/2005	* (see note below)
M-34-22	Complete K West Basin water removal	8/31/2006	* (see note below)
M-34-00A	Complete removal of K Basin fuel/sludge/debris/water	7/31/2007	* (see note below)

* NOTE: Milestone may be completed early, if proposed deactivation plan is approved.



Significant Accomplishments and Status

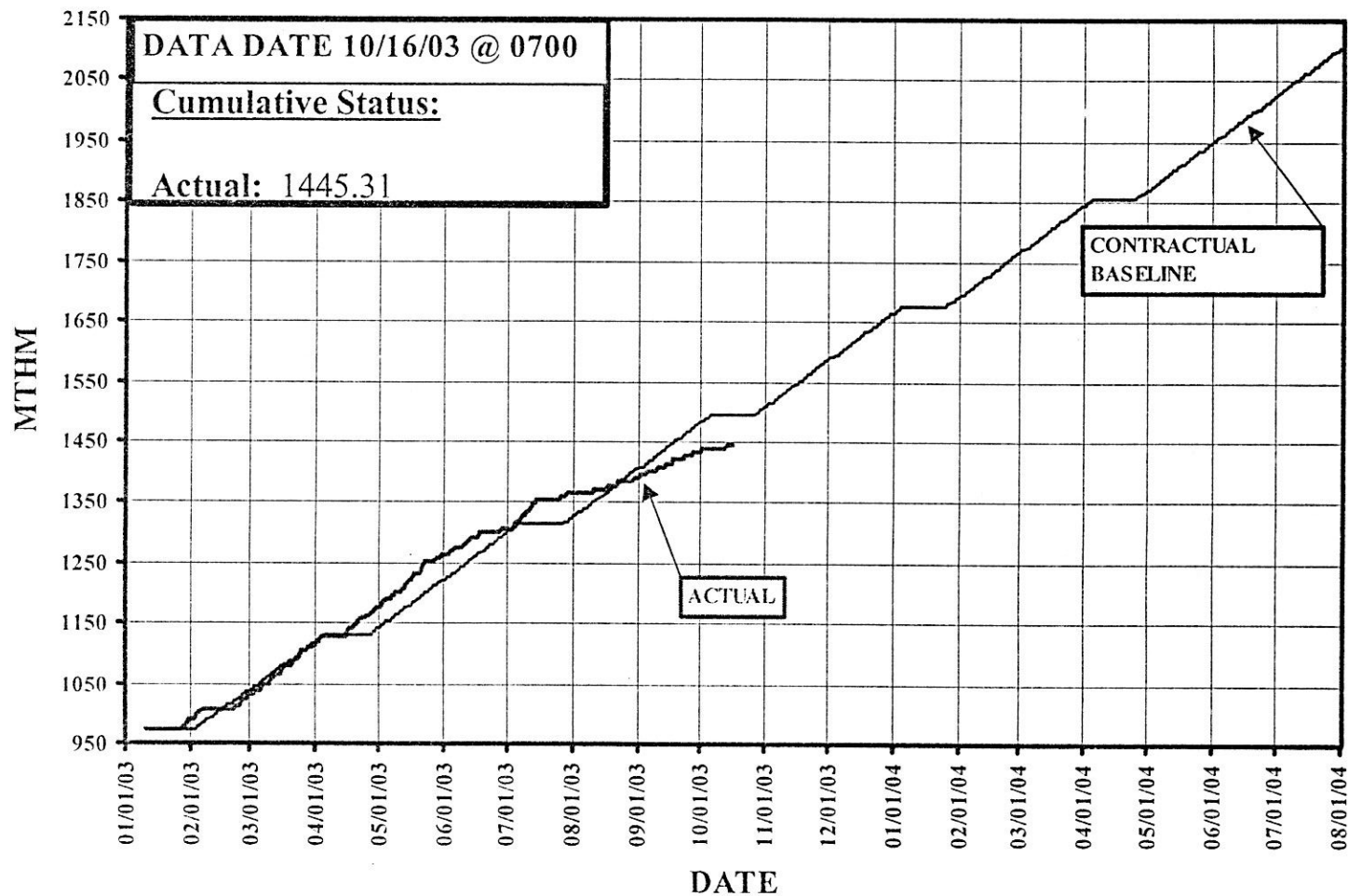
• **Fuel Movement**

- Completed shipment of 97.17 MTHM (16 MCOs) from K West Basin to Cold Vacuum Drying Facility (CVDF) between July 15 and October 16, 2003. Cumulative total of 268 MCOs and 1,445.31 MTHM
- Increased attention to monitoring of equipment performance for corrective actions prior to major failures, and assessments of alternatives to the current inspection criteria and process to improve production rates.
- Re-organized staff assigned to MCO production to provide focus and single-point accountability
- Radiological Improvements:
 - Installed curtain barrier across K-West Basin transfer bay and implemented localized airborne postings to limit respirator need
 - Installed air-conditioning units in 105 K-East and 105 K-West Basins to augment evaporative coolers to mitigate effects of summer heat on productivity
 - Investigating sources of contamination in K-West Basin South Load-out Pit systematically for mitigation or elimination
 - ✓ Installed Personnel Contamination Monitor-2 units in K East and K West.
 - ✓ Installed a bypass line that will route Integrated Water Treatment discharge water to the basin rather than the south load-out pit (reduces the amount of radioactivity entering the south load-out pit during backwash and/or top sparge operations)
- MCO processing improvements completed:
 - Installed Integrated Water Treatment System Knock-out pot external strainers
 - Replaced the Konan manipulators and converted the primary table to manual operation
 - Implemented additional preventative maintenance PM inspections of the Multi-Canister Load System (MLS)/Canister Load-out System (CLS) to identify potential failures early



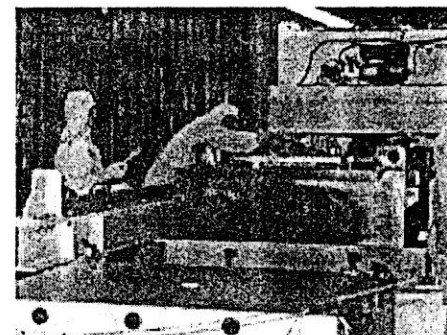
Significant Accomplishments and Status (continued)

MTHM PRODUCTION



Significant Accomplishments and Status (continued)

- Fuel Transfer System (FTS)
 - Current status and production during the period of July 15 and October 16, 2003
 - 24 FTS shipments (240 canisters) completed during reporting period
 - 173 FTS shipments (1,730 canisters) cumulatively completed
 - Assigned dedicated engineer with excellent FTS design/installation experience to support system evaluation and repairs
 - Performed system maintenance activities during the October maintenance outage:
 - ✓ Leveled both tables and adjusted all limit switches
 - ✓ Replaced both lid grabbers and completed preventative maintenance activities on both Annex cranes
 - ✓ Repaired hydraulic leaks, cleaned Cask Transfer Overpack, and corrected wobble in K East stub monorail
 - ✓ Completed operational test of both systems with an empty cask
 - Re-organized into product lines to provide focused leadership and single point accountability for FTS



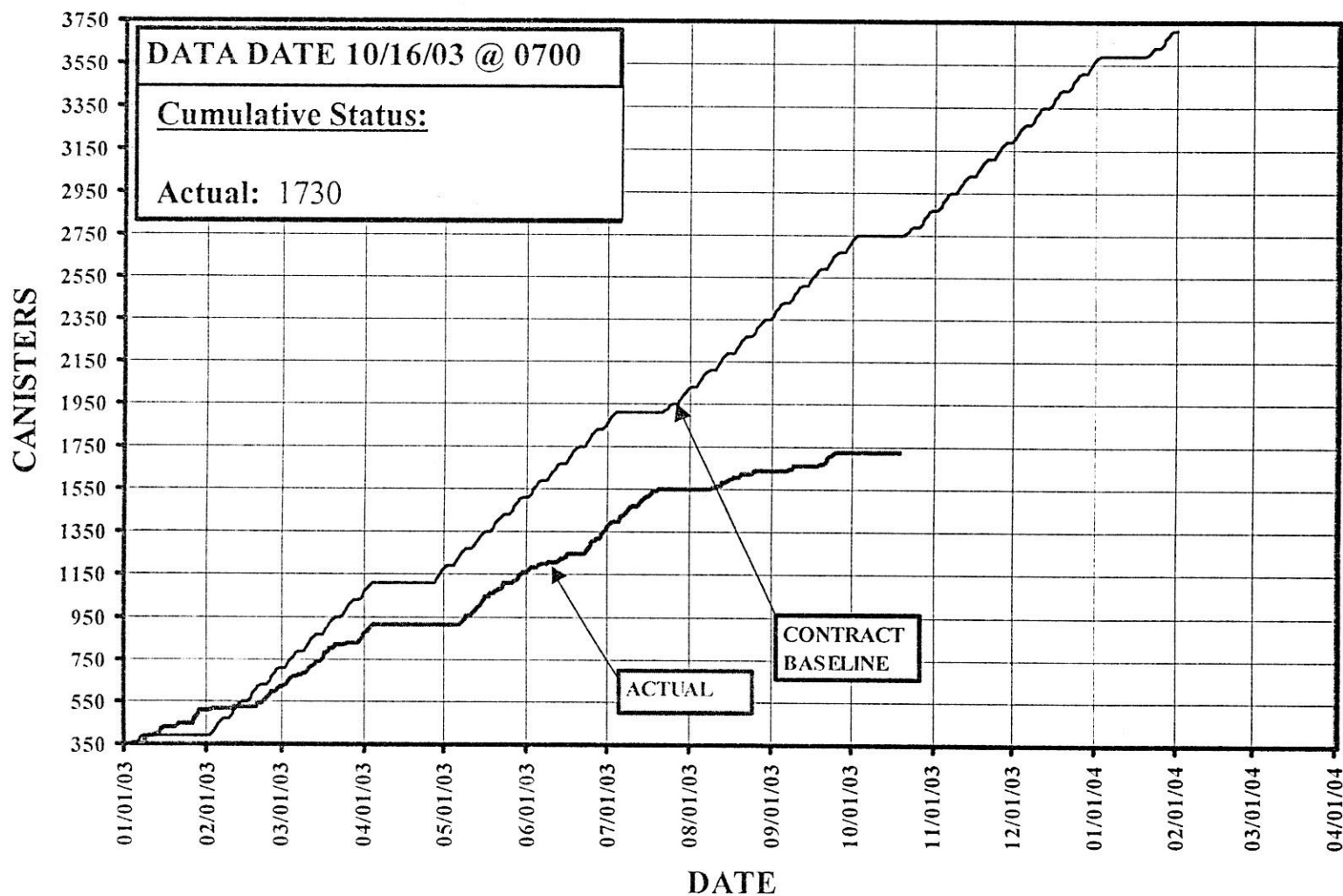
First transport in K East Annex.



First transport leaves K East.

Significant Accomplishments and Status (continued)

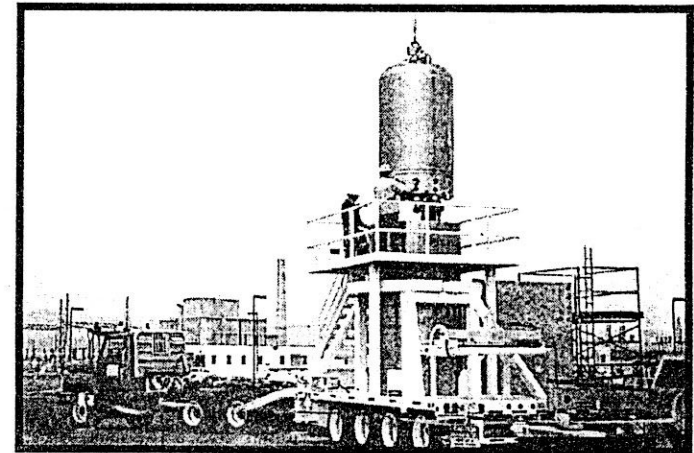
FTS PRODUCTION



Significant Accomplishments and Status (continued)

- Sludge Retrieval and Disposition

- Established Sludge Retrieval and Disposition Project Organization
- Selected Active Inert Ventilation System (AIVS) to resolve H₂ generation concerns
 - Developed schedule
 - Completed design
 - Developed and submitted K-Basin and T-Plant Safety Basis, and Transportation documentation to DOE-RL for approval.
 - Developed changes to CERCLA documentation and submitted to EPA which was subsequently approved.
 - Completed fabrication and modifications
 - Commenced operational testing
 - Anticipate Contractor ORR in November 2003



Sludge Transportation System – Test loading container large diameter into casks at K Basins

- **K West Basin Sludge Retrieval and Storage System (SRSS)**

- The K-West SRSS design/build contract was awarded to British Nuclear Fuel Limited, Inc. (BNFL) on October 7, 2003.

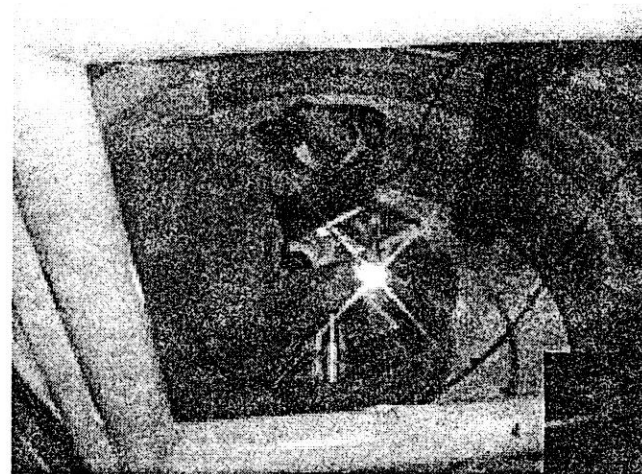
Significant Accomplishments and Status (continued)

- **K West Scrap Removal**

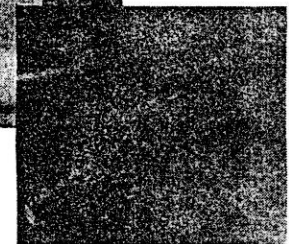
- Readiness Assessment successfully completed
- Phase I Validation Test completed
- Scrap loading into MCO basket initiated (two canisters loaded as of October 17, 2003)
- First MCO containing scrap (MCO 271) scheduled for week of October 20, 2003

- **Canister Storage Building (CSB)**

- Current welding status and production during the period of July 15 – October 16, 2003:
 - 36 MCOs welded during reporting period
 - 89 MCOs welded cumulatively
 - 7 ahead of schedule



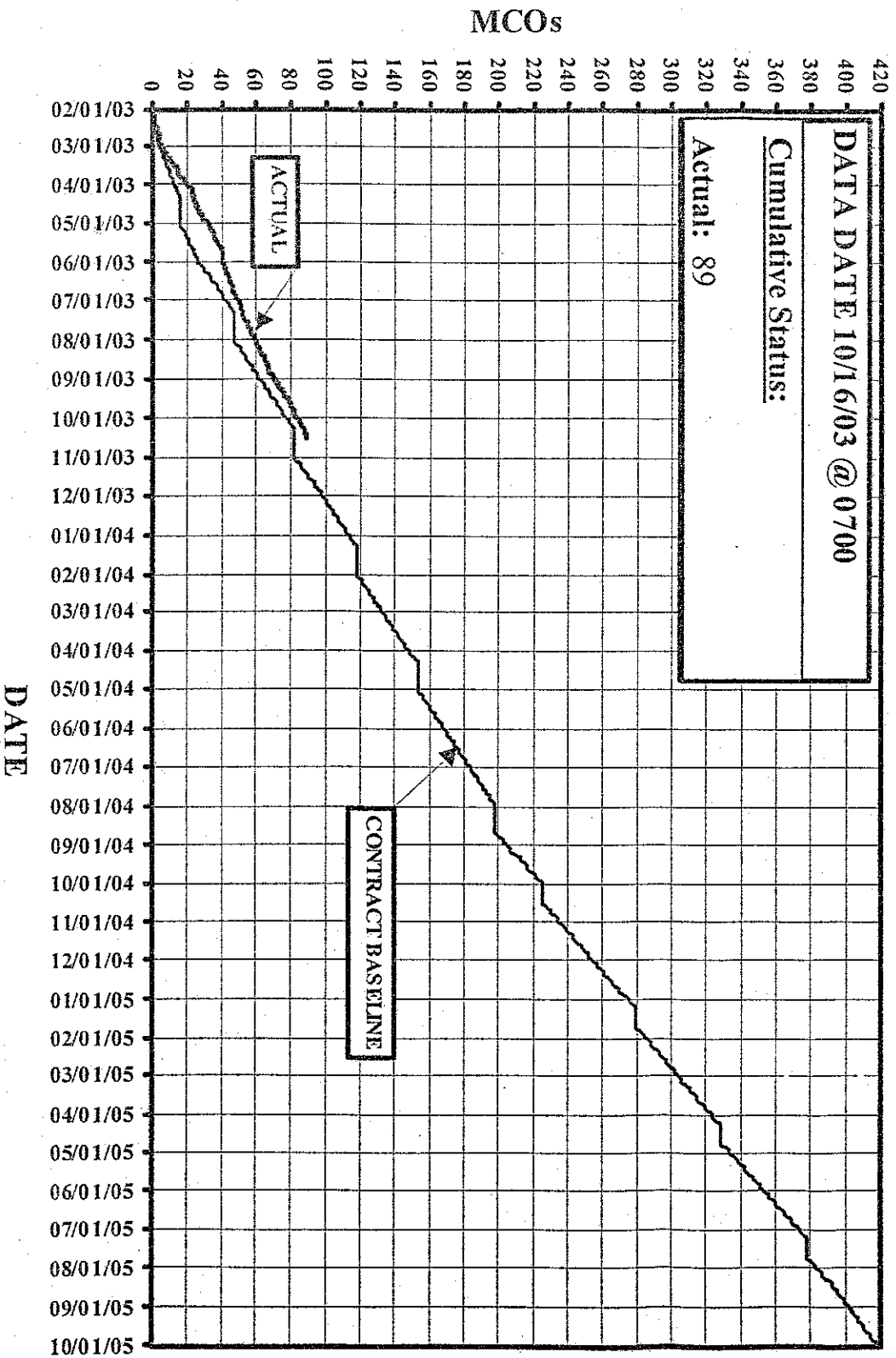
MCO Welding at the CSB



"N" Stamped MCO

Significant Accomplishments and Status (continued)

MCO WELDING



Significant Accomplishments and Status (continued)

- **Deactivation**

- Awarded contract to perform a phased underwater concrete hydrolazing demonstration
 - *Completed first phase September 10, 2003, at the vendor's location. Showed the hydrolazing technology was effective in the removal of concrete.*
 - *The next phase planned involves testing in the 183 K-East Sedimentation Basin to demonstrate effectiveness under field conditions.*
 - *The final phase will involve decontaminating a portion of the K-East Basin wall. DOE Technology Development Funding is supporting demonstration activities.*
- FH is preparing a Data Quality Objective document and Sampling and Analysis Plan for purposes of scoping sampling activities for the management of the hydrolazing waste stream.
- FH is preparing a BCR for submittal to DOE-RL, recommending the Grout and Remove Approach for the deactivation and decontamination of the K Basins.



Upcoming Activities

Fuel Movement

- Complete removal of 1,619 MTHM from the K West Basin November 2003 (Milestone M-34-28 date is December 31, 2003)

K East SWS

- Complete AIVS testing at K-Basin and T-Plant:
 - Complete K-Basin Testing - 10/28/03
 - Complete T-Plant Testing - 10/29/03
 - Finalize all Operating Procedure - 10/23/03 (based upon the final implementation of the DSA)
 - Complete Operations and Support Training on new AIVS - 10/30/03
 - Commence Training Runs on Sludge System - 10/24/03
 - Conduct Contractor ORR – 11/2003
 - Conduct DOE ORR – 12/2003
 - Begin Operations – 12/2003

K-West Basin Sludge Retrieval/Storage System

- Design review of preliminary design documents

K-West Basin Scrap

- First MCO containing scrap (MCO 271) scheduled for week of October 20, 2003

Deactivation

- Perform cold testing of hydrolaze system in the 183 K-East Sedimentation Basins
- Perform hot testing of hydrolaze system in the 105 K-East Basin
- Review and respond to Fluor Hanford Baseline Change Request to change end-point criteria of the basins as currently defined in contract



SNF Project Issues/Concerns

Issue: Timeliness of Environmental Protection Agency (EPA) review and approval of the Application for Risk-Based Disposal Approval for Polychlorinated Biphenyls (PCB) at 200 Area Liquid Waste Processing Facilities (submitted in February 2002). Not having approval of this, the project will have to make budgetary allowances to provide for PCB treatment of K-East Basin water as part of the scope and budget for deactivation.

Status: DOE-RL and FH have reviewed a draft response from EPA, and submitted comments during September and October 2003.



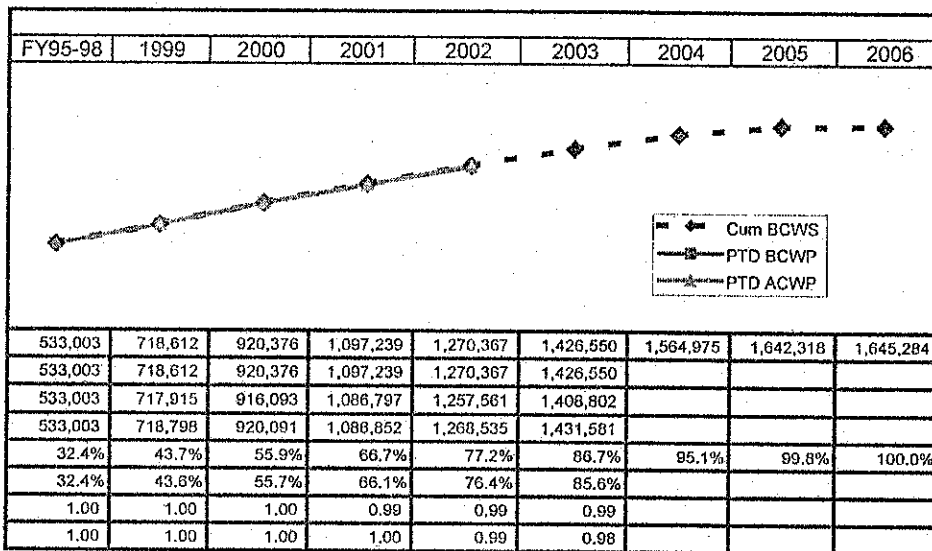
Performance Measurement Terminology

- **BCWS (Budgeted Cost of Work Scheduled)**
 - *BCWS represents the baseline budget for a scope of work over time. BCWS is normally combined with a term such as "Current Period" or "Fiscal Year to Date (FYTD)" to identify the time period the BCWS is associated with. BCWS is created by spreading the baseline cost estimate for a scope of work across its schedule activity duration based on the expected monthly level of activity. BCWS is the basis for the funding requested to perform a scope of work and is maintained through a documented change control process*
- **BCWP (Budgeted Cost of Work Performed)**
 - *BCWP represents the value of the work actually accomplished during a period based upon its budgeted value or BCWS. BCWP is a measure of the value of work based upon the physical work reported complete per the baseline schedule status update*
- **ACWP (Actual Cost of Work Performed)**
 - *ACWP represents the actual costs incurred to perform the work that was completed during a period and recorded as BCWP. For any particular period, ACWP includes accruals for costs not invoiced or booked associated with work that was performed during the period*
- **SCHEDULE VARIANCE (SV)**
 - *SV represents the difference between the work actually accomplished and the work planned or scheduled during any particular time period. ($SV = BCWP - BCWS$) A positive SV reflects an ahead of schedule situation while a negative SV reflects that work is behind the scheduled plan*
- **COST VARIANCE (CV)**
 - *CV represents the difference between the budgeted value of the work actually accomplished and the actual costs incurred to perform the work. ($CV = BCWP - ACWP$) A positive CV reflects the work being accomplished for less than its budgeted value and a negative CV reflects the work costing more to complete than planned*
- **BAC (Budget at Completion)**
 - *BAC represents the total baseline budget for a scope of work associated with either a fiscal year or life cycle. BAC is the summary of all monthly BCWS values for a scope of work within the fiscal year or life cycle. On a fiscal year end report the FYTD BCWS will equal the FY BAC*



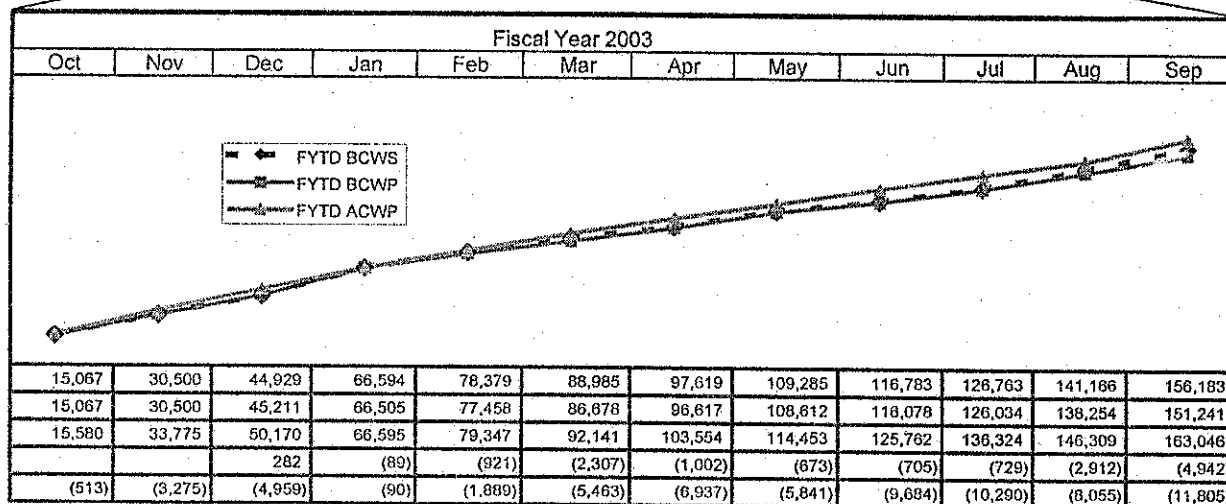
Hanford Spent Nuclear Fuel Project

SNF Project - Total Project Baseline



Life Cycle	
*BAC=	1,645,284
EAC=	1,645,284
BCWS=	1,426,550
BCWP=	1,408,802
ACWP=	1,431,581
SV=	(17,748)
CV=	(22,780)

* Current BAC reflects a 10-month acceleration to the TPA completion date.



Spent Nuclear Fuel Project
Project Performance through Fourth Quarter FY 03
(based on early start schedule)

(\$ in thousands)

By PBS		<u>FYTD</u> <u>ACWP</u>
PBS RS03 WBS 3.2.3.1	SNF Project, 100K Basins	\$ 122,609
PBS RS03 WBS 3.2.3.2	Canister Storage Building (to 2004)	\$ 14,352
PBS RS03 WBS 3.2.3.3	200 Interim Storage Area (to 2004)	\$ 730
PBS RS03 WBS 3.2.3.4	SNF Project Management Support	\$ 25,354
TOTAL		<hr/> \$ 163,045



**CENTRAL PLATEAU
GROUNDWATER
PROTECTION
PROGRAM**

CENTRAL PLATEAU PROJECT – GROUNDWATER PROTECTION PROGRAM

CENTRAL PLATEAU – GROUNDWATER PROTECTION PROJECT FY 2003 TPA MILESTONE SUMMARY (Major & Interim Milestones)

Status as of: September 30, 2003

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast		
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule
CP01	M-015-41B	Submit 200-TW-1 & TW-2 OU RI Report, including Past Practice Waste Sites in 200-PW-5 Fission Product-Rich Process Waste Group	10/30/02	10/23/02	X				
CP01	M-013-00M	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for the 200-IS-1 Tanks/Lines/Pits/Diversion Boxes OU	12/31/02	12/30/02	X				
SS03	M-024-00N	Install RCRA Groundwater Wells at the Rate of 50 per Calendar Year	12/31/02	12/18/02	X				
SS03	M-024-56	Install Two Additional Wells at SST Waste Management Area TX-TY	12/31/02	12/18/02	X				
SS03	M-016-28A	Connect Well 199-K-126 to the 100-KR-4 Pump & Treat Extraction System	01/15/03	01/13/03	X				
CP01	M-015-38A	Submit 200-CW-1 Gable Mountain Pond/B Pond & Ditches Waste Site OU, 200-CW-3 North Area Cooling Water Waste Group OU, & 200 North Area Waste Sites FS/PP	03/31/03	03/31/03		X			
CP01	M-015-40B	Submit 200-CW-5 U Pond/Z Ditches Cooling Water RI Report, Including Past Practice Waste Sites in the 200-CW-2 S Ponds/Ditches Cooling Water Group, the 200-CW-4 T Ponds/Ditches Cooling Water Group, and the 200-SC-1 Steam Condensate Group	05/31/03	05/31/03		X			
CP01	M-015-47	Submit a Proposed Plan to Conduct Remedial Action(s) for Source Control at High Risk Waste Site(s) Which Includes a Engineering Evaluation of an Engineered Barrier	06/30/03	06/30/03		X			
SS03	M-106-27C	Complete 100-HR-3 Phase III ISRM Barrier Emplacement Planning, Well Installation, and Barrier Emplacement	06/30/03	04/10/03	X				
CP01	M-015-39A	Complete Chemical Sewer Group Field Work Through Sample Collection and Analysis	09/30/03	09/30/03		X			

ACCOMPLISHMENTS

200 Area Remediation

In September, the M-015-39A Milestone was met with delivery of the 200-CS-1 (Chemical Sewers Operable Unit) Field Summary Report and the analytical data packages.

Comments were received on the 200-CW-5/200-CW-2/200-CW-4/200-SC-1 Operable Units Remedial Investigation Report from the regulators in July. The comment resolutions are being finalized with the regulators and the document is being revised.

Comments were received from the regulators, various stakeholders, and Tribal representatives on the Central Plateau Ecological Evaluation Report. The document presents a screening-level ecological risk assessment for the entire Central Plateau area that complies with EPA guidance. The document will be revised in parallel with an Ecological DQO. The Central Plateau Ecological data quality objectives (DQO) process was initiated in July.

Waste site field investigations were completed at six waste sites in the 200-PW-2/200-PW-4 Uranium-Rich/ General Process Condensate and Process Waste Operable Unit, three of those being high risk sites. An Ecology review comment on the RI/FS work plan is still unresolved. The comment requested sampling of an additional representative site.

The Basis for Interim Operations (BIO) and Technical Safety Requirements (TSR) documents for the 618-10 and 618-11 Burial Grounds were completed. This resulted in the establishment of these two waste sites as Hazard Category 3 Nuclear facilities. DOE issued a Safety Evaluation Report for these sites, thereby approving the BIO and TSR documents. At the end of September 2003, the implementation phase of the BIO was nearing completion.

Several other TPA documents, including Remedial Investigation Reports, Feasibility Studies, Closure Plans, Proposed Plans, and Proposed Permit Modifications, are in various stages of review/completion.

Groundwater Remediation

The Data Quality Objective (DQO) summary report supporting the 200-UP-1 remedial investigation/feasibility study (RI/FS) process was issued during this reporting period. The title of this report is *Data Quality Objective Summary Report Supporting the 200-UP-1 Operable Unit Remedial Investigation/Feasibility Study Process*, CP-15315, Revision 0.

The draft RI/FS work plan for the 200-UP-1 operable unit was transmitted to Ecology on October 8, 2003. The title of this report is *Remedial Investigation/Feasibility Study Work Plan for the 200-UP-1 Groundwater Operable Unit*, DOE-RL-92-76.

The DQO summary report and work plan supporting the 200-ZP-1 RI/FS process was also completed in draft form during this reporting period. The titles of these two documents are as follows: *Data Quality Objective Summary Report Supporting the 200-ZP-1 Operable Unit Remedial Investigation/Feasibility Study Process*, CP-16151, and *Remedial Investigation/Feasibility Study Work Plan for the 200-ZP-1 Groundwater Operable Unit*, DOE-RL-2003-55.

The three 100 Area pump and treat systems (100-KR-4, 100-NR-2 and 100-HR-3), and the two Central Plateau groundwater pump and treat systems (200-UP-1, 200-ZP-1) continued to operate above 90 % availability throughout the fourth quarter.

The 200-PW-1 active soil vapor extraction system was shut down September 30, 2003, on schedule as planned for seasonal conditions.

Six monitoring wells were drilled for ORP. These wells will be included under the M-024-000 milestone. Field work was started at the Z-9 DNAPL Characterization Boring and planning began on drilling the four remaining M-024-000 wells.

The In Situ Redox Manipulation (ISRM) barrier at the 100-D Area was completed last quarter (M-016-27C) 2.5 months ahead of the TPA due date and is now operational.

A workshop for 100-N Area groundwater was held in August 2003. The workshop discussed the conceptual model for groundwater and technologies for remediation.

Forty-seven wells were decommissioned in the vicinity of U-Plant. A second solicitation is being prepared to decommission unused piezometers and wells in the Central Plateau. The contract is anticipated to be awarded in November 2003.

Groundwater/Vadose Zone Integration

An Optimization Strategy for Central Plateau Closure, Rev. 0, Draft A was completed and submitted to DOE on September 30, 2003. However, it has not been reviewed or concurred with, by the regulatory agencies. This document presents a draft strategy to optimize timing and sequencing for disposition of excess facilities and remediation of waste sites on the Central Plateau. This document is the second in a series of three reports specified in DOE/RL 2002-47, *Performance Management Plan for the Accelerated Cleanup of the Hanford Site*. The three documents are described as action items in DOE/RL 2002-47, Appendix A: "Specific Commitments to Accelerate Hanford Cleanup." DOE comments are due the end of October. Yearly updates are planned, which will lead to the final comprehensive plan due in September 2008.

The summary report for the 618-10 and 618-11 Burial Ground remedial design technology workshop held in June was issued in late September 2003.

Contracts were issued by DOE/HQ EM-50 Office of Technology Development to 6 companies supporting development of technologies for remedial actions at the 618-10 and 618-11 burial grounds. This is a 3 year program culminating with demonstration testing within the burial grounds.

ISSUES

200 Area Remediation Issue Status

Issue - The April 2003 TPA Quarterly Review reported on the disagreement between Ecology and USDOE about the timing for collecting ecological data to support remedial action decision making. The issue was discussed at the IAMIT on the same date, and it was decided to have a follow-up meeting on May 12, 2003 to identify a path forward.

Status - USDOE issued a Draft B *Central Plateau Ecological Assessment Report*, received review comments, and is revising the document in

response to comments. The Report identified several data gaps. In July the Parties kicked off a DQO process that will evaluate those data gaps, as well as other issues identified during DQO interviews. Ecology and EPA are planning to provide conditional approval of RI/FS documents, with the addition of text provided at a September global issues meeting.

U Plant Soil Waste Sites Issue Status

Issue - Ecology and USDOE disagree on technical approach to characterization of soil waste sites and pipelines in the U Plant area. The characterization supports the U Plant area closure. USDOE is proposing to rely on the analogous sites approach for unplanned releases and pipelines. Ecology made prior comments that the analogous sites approach is not relevant for unplanned releases and pipelines. Ecology also proposes that for unplanned releases that are limited in areal extent, it should be cheaper to plan one mobilization and characterize using the observational approach during excavation/cleanup. USDOE proposes to use process knowledge for pipelines characterization; Ecology previously identified 4 specific alternatives (not including process knowledge) for pipelines characterization and remediation

Status - The issues on waste site remediation have been topics of ongoing discussions and resolutions will be reflected in the feasibility study and proposed plan revisions. The pipeline issue remains, but is still being worked with DOE-RL, DOE-ORP, the regulators, and contractor staff. The issue is also the focus of the IAMIT group.

200-UR-1 RI/FS Work Plan Issue Status

Issue - USDOE initiated work on the 200-UR-1 (unplanned releases) operable unit RI/FS work plan, to meet the M-013-00N milestone (due 12/31/2003). In July 2003, the State of Washington Department of Ecology (Ecology) proposed a further streamlining to investigate and remediate the 200-UR-1 OU. RL and the contractor project team met with Ecology on August 14, 2003, to further discuss Ecology's proposal. Information was provided on the different waste sites in the OU which were preliminarily combined into four subsets based on site characteristics. The discussions centered on a workplan that would be substantially different from the previous workplans prepared under the Tri-Party Agreement Milestone Series M-013. The workplan

CENTRAL PLATEAU PROJECT - GROUNDWATER PROTECTION PROGRAM

would address characterization needs for those sites where additional data are required and would also propose criteria that support a decision to proceed directly to remove and dispose actions for those sites that meet the criteria for such actions. The proposed approach significantly modifies the workplan content and impacts RL's ability to meet the December 31, 2003, deliverable. RL and Ecology agreed that an extension to the due date is needed to achieve the benefits in implementation of this innovative approach.

Status - A draft TPA change package that would move the milestone date to June 30, 2004 has been approved by RL and has been transmitted to Ecology for their approval.

Richland Environmental Restoration Project

TPA MILESTONES SUMMARY SCHEDULE -- CENTRAL PLATEAU

OPERABLE UNIT		TPA MILESTONES SUMMARY SCHEDULE -- CENTRAL PLATEAU																																															
		Fiscal 2002				Fiscal 2003				Fiscal 2004				Fiscal 2005				Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010				Fiscal 2011				Fiscal 2012				Fiscal 2013			
		BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
618-10/618-11 Burial Grounds																																																	

Richland Environmental Restoration Project

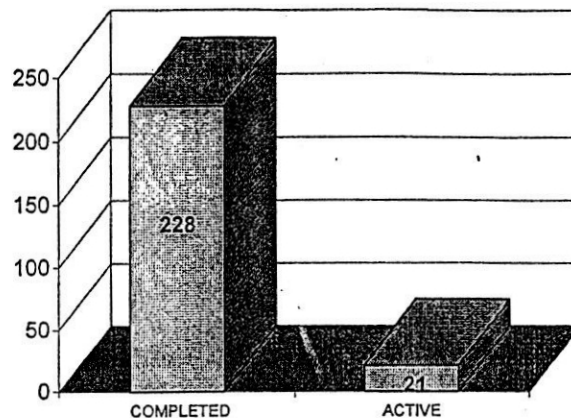
TPA MILESTONE SUMMARY SCHEDULE -- CENTRAL PLATEAU

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 TPA MILESTONE
  TPA MAJOR MILESTONE
  TARGET MILESTONE
  FORECAST
  COMPLETE
  UNRECOVERABLE
  "AT RISK"
 (P) PENDING CHANGE REQUEST
  RCRA PERMIT COMMITMENT

M-16-00 - 9/30/2024 - Complete Remedial Actions for All Non-Tank Farm Operable Units

**Groundwater Protection Program
TPA Milestone Statistics**
(Major & Interim Milestones)

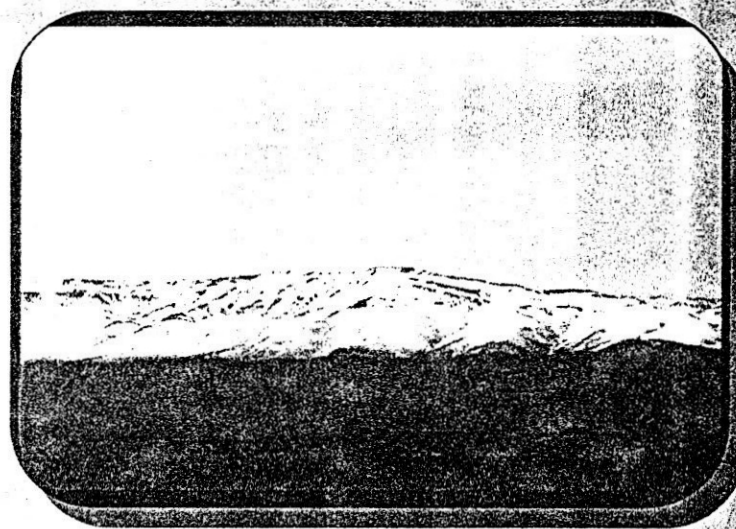
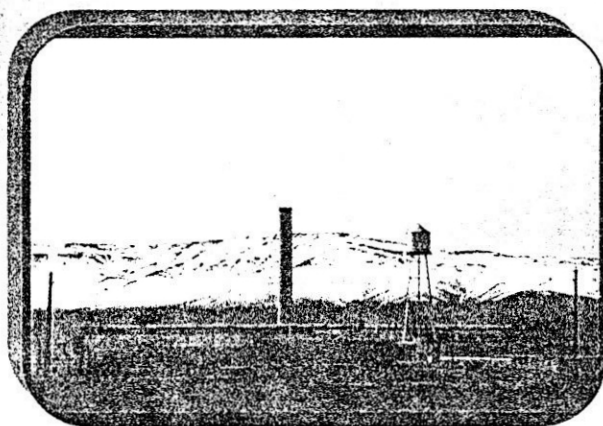


	Compliance Due Date	Total Active @ 09/2003 *	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
M-13-00 Submit Work Plans for RFI/CMS or RI/FS Studies	12/31/2004 (M-13-00O)	2	M-13-00M(C) M-13-00N M-13-00O	12/31/02 12/31/03 12/31/04		
M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00)	8	M-15-41B(C) M-15-38A(C) M-15-40B(C) M-15-47(C) M-15-39A(C) M-15-41C M-15-39B M-15-43B M-15-40C M-15-39C M-15-43C M-15-00C M-15-00	10/30/02 03/31/03 05/31/03 08/30/03 09/30/03 03/31/04 05/31/04 06/30/04 10/31/04 11/30/05 12/31/05 12/31/08 12/31/08		
M-16-00 Remedial Design / Remedial Action	9/30/2024 (M-16-00)	1	M-16-28A(C) M-16-27C(C) M-16-66 M-16-67 M-16-00	03/31/03 08/30/03 09/30/04 03/31/07 09/30/24		
M-20-00 Submit Closure Plans for All RCRA TSD Units	12/31/2008 (M-20-00B) (Shared with FH)	4	M-20-39 M-20-33 M-20-54 M-20-00B	11/30/05 12/31/05 12/31/08 12/31/08		
M-24-00 RCRA Groundwater Monitoring	Annually	4	M-24-58(C) M-24-00N(C) M-24-00O M-24-00P M-24-00Q M-24-00R	12/31/02 12/31/02 12/31/03 12/31/04 12/31/05 12/31/06		
10 --- MILESTONES COMPLETED IN FY03 (C)						

TOTAL ACTIVE MILESTONES**19**

* Includes TPA changes requests approved thru September 30, 2003.

Plutonium Finishing Plant Stabilization Project



Milestone

TPA-M-83

October 2003
Tri-Party Agreement Milestone
Status Report

Ecology Project Manager - R. Bond
DOE-RL Project Director – S. Charboneau
FH Project Manager – S. M. Sax
FH Environmental – A. M. Hopkins

M-83 Status for Interim Milestones Through 2006 (as of 09/30/03)

TPA No.	TPA Commitment Date	Milestone Title	Status
M-083-21	12/31/02	SUBMIT PFP RESIDUAL CHEMICAL HAZARDS ASSESSMENT	Complete 12/27/02
M-083-30	7/31/03	SUBMIT 241-Z WASTE TSD AND GLOVEBOX HA-20MB CLOSURE PLANS	Complete 7/25/03
M-083-20	9/30/03	SUBMIT FACILITY TRANSITION END POINT CRITERIA DOCUMENT	Complete 9/30/03
M-083-12-T01	12/31/03	SUBMIT PFP LEGACY PU HOLDUP REMOVAL PLAN TO ECOLOGY	On Schedule
M-083-13	4/30/04	COMPLETE REPACKAGING OF PFP MIXED WASTE RESIDUES & SHIP TO CWC	On Schedule
M-083-31	6/30/05	DISCONTINUE WASTE DISCHARGES FROM THE 241-Z TANKS TO TANK FARMS	On Schedule
M-083-14	9/30/06	COMPLETE 100% OF THE LEGACY PU HOLDUP REMOVAL	On Schedule
M-083-40	9/30/06	COMPLETE TRANSITION AND DISMANTLEMENT OF 232-Z BLDG INCINERATOR	On Schedule

PFP Pu Stabilization Scoreboard (DNFSB Status)

% Stabilized / Made Disposition Ready as of September 30, 2003

	1/31/03	3/31/03	6/30/03	9/30/03
Solutions (by Pu Weight) -----	100%	100%	100%	100%
Metals -----	100%	100%	* 100%	100%
Alloys -----	100%	100%	100%	100%
Oxides -----	13%	20%	35%	57%
Polycubes -----	58%	100%	100%	100%
Residues -----	89%	95%	95%	100%
3013 Packaging -----	48%	53%	64%	78%

* The outer cans will be either re-canned or radiographed

Major Accomplishments

Safety

- *On August 21, 2003, PFP received VPP Star Status from the Department of Energy. PFP is the first former defense production facility to achieve this prestigious safety award*

Metals, Alloys, Oxides

- **Contract to date - 3,616 items have been processed - 73 items over the contract to date plan. Fiscal year to date - 3,041 items have been processed meeting the fiscal year plan**

Major Accomplishments

Residues

- On August 6th, PFP formally completed the Defense Nuclear Facilities Safety Board Milestone for residues repackaging, 8 months ahead of schedule
- Completed Group 2 Alloys on August 6, 2003
- Completed Repackaging Low Assay MOX (<10% Pu) on September 30, 2003

Outer Can Packaging

- Over one thousand 3013 containers have been produced during this fiscal year - 78% complete

Major Accomplishments (continued)

Disposition of Nuclear Material

- The 9975 Safety Analysis Report for Packaging (SARP) document was approved August 15, 2003

Decontamination & Decommissioning

- The FH Approved Readiness Assessment for 232-Z was successfully completed and authorization to proceed was issued September 19, 2003, eleven days ahead of schedule.
- The first 232-Z D&D activity, glovebox process equipment removal commenced September 22, 2003
- M-83-30, Submittal of 241-Z/Glovebox HA-20MB closure plans – was completed on July 25, 2003
- M-083-20, Submit Endpoint Criteria to Ecology – was completed on September 30, 2003
- On August 28, 2003, EPA approved the Alternate Monitoring Plan for 241-Z Stack 296-Z-3

Planned Accomplishments

- **Complete Legacy Holdup Removal in Giovebox HC-7C**
- **Complete Legacy Holdup Removal in MT-5 & 6**
- **RL review and approval of the Legacy Holdup Removal Plan (TPA milestone M-083-12-T01)**
- **Resolution of Comments on Environmental Assessment (comments from Ecology and ODOE)**

Schedule / Cost Performance

Fiscal Year to Date Status (\$000s)

CP03
3.3.3 Plutonium
Finishing
Plant

BCWS	BCWP	ACWP	Sched. Variance \$	Sched. Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
\$101,387	\$98,293	\$100,380	-\$3,094	-3.1%	-\$2,087	-2.1%	\$101,387

Status through September 2003 month end

PHMC Schedule / Cost Performance

Fiscal Year to Date Status (\$000s)

Schedule Variance Analysis (-\$3.1M):

- Primary contributors to the negative schedule variance are:
- Delay in Legacy Holdup Removal activities due to lack of qualified field work teams
- Delay in D&D planning activities due to resources assigned to higher priority scope
- Behind schedule on NDA reports and SARP evaluation for low-assay MOX (packaging of <10% MOX completed ahead of schedule)

Cost Variance Analysis (-\$2.1M):

- Primary contributors to the negative cost variance are:
- Increased stabilization costs as a result of equipment reliability
- Increased costs required for preparation and receipt of FFTF Fuel shipments and accelerated stabilization (early completion of FY03 work scope)
- Increased labor rate costs in Project Management
- This unfavorable cost variance was partially offset by a favorable indirect variance distribution in August

Potential Issues/Requests for Assistance

■ Regulatory Issue:

- None

■ Non-Regulatory Issues:

- Decision on Consolidation of Nuclear Material at SRS
- Availability of Safe and Secure Transports to SRS
- SRS Acceptance Criteria for 3013s

**Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
Quarterly Presentation
October 28, 2003**

**M. F. Jarvis
RL Regulatory Compliance and Analysis Division
M. S. Collins
RL Waste Management Division**

**Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
October 28, 2003**

- Tri-Party Agreement requires that a Hanford Site Land Disposal Restrictions (LDR) Report be submitted annually
 - LDR Report is designated as a primary document in accordance with the Tri-Party Agreement
- The CY 2002 LDR Report (M-026-01M) was approved by Ecology on July 16, 2003 with comments
 - Ecology's comments are being addressed during the Project Manager Meetings

**Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
October 28, 2003**

- Program Manager Meetings (PMMs) continue to resolve outstanding actions outlined in the March 14, 2002, Resolution Agreement
 - Six of the seven actions are complete
 - One remains open (consolidation of requirements document)
- The PMMs are also used to address issues or concerns identified during the conduct of workscope or outyear activities
 - Open actions and/or remaining issues are statused during the PMMs

**Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
October 28, 2003**

Actions Planned for Next Six Months

- Finalize instructions for the CY 2003 Land Disposal Restrictions (LDR) Report and conduct kick-off meeting (December 10, 2003)
- Submit the CY 2003 LDR for regulator approval (April 30, 2003)
- Continue the monthly PMMs focusing on requirements consolidation and PMM commitments/actions

**Status Update for M-91 milestone series
October 28, 2003**

Accomplishments: M-91/M-16 Settlement Agreement and Tentative Agreements signed on October 23. Public comment period will start in November.

Administrative Order Accomplishments:

- Received approval of Sampling and Analysis Plan for 218-W-4C burial ground on 9/13/03. Sampling of vent risers began 10/15/03 and is scheduled for completion before 11/15/03.
- Submitted Annual Remote-Handled Waste Progress Report on 9/30/03.
- Initiated retrieval in 218-W-4C burial ground on October 16, 2003.
- Initiate vapor extraction in trench 4 of 218-W-4C by 11/15/03: on schedule.

TRU Waste Program – Accelerating TRU shipments to WIPP

- Completed shipment of 342 m³ (238 m³ in FY03) of TRU waste to WIPP as of 10/17/03.
- Successful audit of nondestructive assay and nondestructive examination APLs – Certification approval expected by end of November.
- Audit of headspace gas APL scheduled for 11/9/03, with certification expected in January 2004.
- 16 shipments planned from 10/20/03 through December 2003.

TRU Retrieval

- Starter retrieval operations on October 16.
- Approval of NOC expected by 10/30/03

Mixed Low Level Waste Program

- Disposed of 1050 m³ of 183-H waste at ERDF as of 10/17/03.
- Treated 899 m³ of MLLW as of 9/30/03.
- Continuing to work with generators to develop treatment by generator or procure commercial treatment services to prevent build-up of legacy MLLW.
- Completed thermal treatment of 15 m³ of MLLW at Permafrix.

M-20 Milestone Status Permits and Closure Plans

Presented by:

Tony Mckarns
U.S. Department of Energy

October 28, 2003

Closure Plan Milestone Status

M-20-33

12/31/2005

Submit 216-A-10 Crib, 216-A-36B Crib, 216-A-37-1 Crib, and 207-A South Retention Basin Closure/Postclosure Plans to Ecology in coordination with the Feasibility Study for the 200-PW-2 Uranium-Rich Process Waste Group Operable Unit (coordinate under M-15-43C)

M-20-39

11/30/2005

Submit 216-S-10 Pond and Ditch Closure/Postclosure Plans to Ecology in coordination with the Feasibility Study for the 200-CS-1 Chemical Sewer Group Operable Unit (coordinate under M-15-39C)

M-20-54

12/31/2008

Submit 241-CX-70 Storage Tank, 241-CX-71 Neutralization Tank, 241-CX-72 Storage Tank, 241-CX Storage Tank Closure/Postclosure Plan to Ecology in coordination with the 200-IS-1 Tanks/Lines/Pits/ Boxes Operable Unit Work Plan Feasibility Study scheduled under M-13-00M.

Current Milestone Status:

Program planning.

Planned Actions – next 6 months

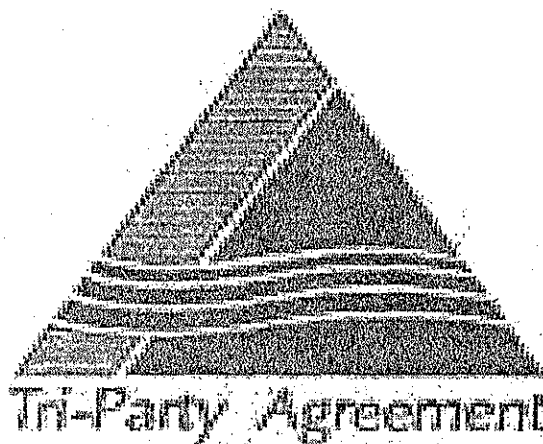
- Close major milestone M-20-00A, due date 2/28/04. DOE and Ecology schedule discussion to review TSD unit status.
- DOE submit procedural closure request for Radioactive Liquid Waste Tank in 325 Hazardous Waste Treatment Units.
- DOE submit documentation for Permit reapplication by 3/31/04.
- DOE and Ecology continue NOD workshops for the LLBG. Ecology extended the NOD workshops to resolve issues for an additional 180 days (1/18/04).
- DOE submit to Ecology Closure/Postclosure Cost Estimate Report by 10/31/03.
- Ecology and DOE resolve comments on the closure plan for the 216-B-3 TSD unit, in conjunction with the CERCLA feasibility study for the 200-CW-1 and 200-CW-3 operable units.

Planned Actions – next 6 months (cont.)

- Ecology provide NODs on the Double-Shell Tank System (DST) Part B Application
- Ecology approve closure of the 1324-N surface impoundment and 1324-NA percolation pond, and DOE submit a post-closure plan and groundwater monitoring plan for the units.
- Ecology provide NODs for the Immobilized High-Level Waste Storage Unit (IHLW) Part B permit application.
- Ecology provide NODs for the Integrated Disposal Facility (IDF) Part B permit application.
- Ecology transmit to DOE draft permit for T Plant Complex.
- Ecology respond to Class 1 modifications submitted for quarter ending 6/30/03 and 9/30/03.

Cesium/Strontium Capsule Dry Storage Project

TPA Quarterly Review



U.S. Department of Energy

U.S. Environmental Protection Agency

Washington State Department of Ecology

10/28/03

Cesium/Strontium Capsule Dry Storage Project

Milestone Summary

- **TPA Milestone M-92-00**
Compete acquisition of new facilities, modification of existing facilities necessary for the storage, treatment/ processing and disposal of Hanford site cesium and strontium capsules, bulk sodium and 300 area special case waste.
- **TPA Milestone M-92-01 – 12/31/2009**
Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities and/or modification of planned facilities necessary for site wide consolidation, storage prior to commercial use, or treatment and/or repackaging by DOE TWRS (ORP).
- **TPA Milestone M-92-05 – 6/30/2007**
DOE will assess the viability of directly disposing of Hanford Cs/Sr capsules at the National High-Level Waste Repository.

Cs/Sr Capsule Dry Storage Project

M-92-01 Accomplishments

- Developed project requirements through issuance of the Project Management Plan, Performance Specification, and Functions and Requirements documents.
- Established process technical basis by issuing Capsule Advisory Panel reports.
- Completed scoping of the safety analysis
- Initiated NEPA analysis and defined RCRA permitting path.

Cesium/Strontium Capsule Dry Storage Project

M-92-01 Accomplishments

- Procurement actions to acquire design/fabrication contractor:
 - Request for proposal issued 5/20/03
 - Bids from 5 vendors received 7/7/03
 - Consent Package submitted to DOE 8/12/03
 - Extended the proposal validity date to 11/7/03

Cesium/Strontium Capsule Dry Storage Project

M-92-05 Status

- M-92-05

Continuing efforts to assess viability for direct disposal at the high-level waste repository

Cesium/Strontium Capsule Dry Storage Project 6-Month Look Ahead

- DOE currently evaluating options on the path forward for the project.
 - Options range from completion of capsule movement into dry storage by 2006 (original project schedule) to completion of all conceptual design, environmental permitting, and safety analysis to support capsule removal to dry storage in Fiscal Years 2007 or beyond.

Cesiums/Strontium Capsule Dry Storage Project FY-03 Performance Summary

Schedule Variance Summary:

- Through 9/30/03, the Cs/Sr CDSP is \$155.9K behind schedule. The schedule variance is attributed to delay in the award of the conceptual design contract.

Cost Variance Summary:

- At the end of 9/30/03, the Cs/Sr CDSP had performed \$1544.2K (BCWP value) worth of work, at a cost of \$1883.6K (ACWP value). This results in an unfavorable cost variance of \$339.5K. The negative cost variance is attributed to authorizing unplanned work scope by the Capsule Advisory Panel to prepare a technical basis for the project.

Special Case Waste 340 Building

- Work has continued on the 340 complex portion of Tri Party Agreement Milestone M-92-16 (Complete removal and transfer and initiate storage of Phase III 300 Area Special Case Waste).
 - The tanks have been emptied to minimum heel similar as was done in B Plant and PUREX and subsequent evaporation has lowered the levels further to significantly below minimum heel levels. DOE has agreed that the intent of this portion of the milestone has been met and that these tanks and heels will be dispositioned under M-94-01 due 9/30/04.
- Activities described in PMP HNF-5068, Revision 1A are deferred to the River Corridor Contractor as managed/directed under Tri Party Agreement Milestone M-94-04.
- Report of Closure submitted to WDOH for Permitted 340-A Building Tank solids removal activities pursuant to Washington Administrative Code 246-247-080(6).